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## Bibliographic Information

**Secondary amines containing isoxazole rings.** Kano, Hideo; Makisumi, Norio. (Shionogi & Co.). (1957), JP 32009228 19571030 Showa. Patent language unavailable. CAN 52:88335 AN 1958:88335 CAPLUS (Copyright (C) 2006 ACS on SciFinder (R))

## Patent Family Information

<u>Patent No.</u>	<u>Kind</u>	<u>Date</u>	<u>Application No.</u>	<u>Date</u>
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## Abstract

3,4-Dimethyl-5-aminoisoxazole (I) (5.6 g.) and 5.3 g. PhCHO refluxed 1 hr. and the solid product recrystd. from MeOH gave 8.4 g. 5-PhCH:N analog (II) of I, m. 96-8°. II (8 g.) in 30 ml. MeOH treated dropwise with 1.52 g. NaBH<sub>4</sub> in 30 ml. MeOH, heated 2 hrs. at 50°, the MeOH removed, the residue with H<sub>2</sub>O filtered off and recrystd. from dil. MeOH gave 7.9 g. 3,4-dimethyl-5-benzylaminoisoxazole (III), m. 118-19°. Similarly are prepd. 5-(p-RC<sub>6</sub>H<sub>4</sub>CH:N) analogs of II (R and m.p. given): MeO, 114-15°; Me<sub>2</sub>N, 139-40°. 5-(p-RC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NH) analogs of III (R and m.p. given): MeO, 77-8°; Me<sub>2</sub>N, 126-7°. 3,4-Tetramethylene-5-(R-substituted)-isoxazoles (R and m.p. given): PhCH:N, 74-6°; p-MeOC<sub>6</sub>H<sub>4</sub>CH:N, 133-4°; o-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH:N, 127-8°; PhCH<sub>2</sub>NH, 114-15°; p-MeOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NH, 88-90°; p-MeNC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NH, 126-7°. 3-Phenyl-5-(R-substituted)isoxazoles (R and m.p. given): PhCH:N, 140-1°; PhCH<sub>2</sub>NH, 91-2°; p-MeOC<sub>6</sub>H<sub>4</sub>CH:N, 150-1°; p-MeOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NH, 77-9°. 5-Furfurideneamino analog of I, m. 104°; 5-furfurylamino analog of III, m. 103-4°. These products are useful as intermediates for syntheses of antihistaminies.